60

JC09 Rec'd PCT/PTO 03 JUN 2005

- 1 -

SEQUENCE LISTING <110> Bayer AG, BHC Isolated fluorescent protein CGFP and use thereof <130> Le A 36 493 <160> <170> PatentIn version 3.1 <210> 1. <211> 708 <212> DNA <213> Clytia gregaria <400> 1 atgactgcac ttaccgaagg agcaaaactg ttcgagaaag aaattcccta cattacagag ttggaaggag acgttgaagg aatgaaattc atcatcaaag gtgaaggtac tggcgacgct 120 actactggca ccatcaaagc gaaatatatt tgcacaactg gtgaccttcc tgtaccatgg 180 gctaccatct tgagtagttt gtcgtatggt gttttctgtt tcgctaagta tccacgccac 240 attgccgact ttttcaagag cacacaacca gatggttatt cacaagacag aatcattagt 300 tttgacaatg atggacaata cgatgtcaaa gccaaggtta cttatgaaaa cggaacactt 360 tataatagag tcacagtcaa aggtactggc ttcaaatcaa acggcaacat ccttggtatg 420 agagttetet accatteace accaeacget gtetacatee tteetgaceg taaaaatggt 480 ggcatgaaaa ttgaatacaa taaggctttc gacgttatgg gcggtggtca ccaaatggcg 540 cgtcacgccc aattcaataa accactagga gcctgggaag aagattatcc gttgtatcat 600 catcttaccg tatggacttc tttcggaaaa gatccggatg atgatgaaac tgaccatttg 660 accatcgtcg aagtcatcaa agctgttgat ttggaaacat accgttga 708 <210> 2 <211> 235 <212> PRT <213> Clytia gregaria <400> 2 Met Thr Ala Leu Thr Glu Gly Ala Lys Leu Phe Glu Lys Glu Ile Pro Tyr Ile Thr Glu Leu Glu Gly Asp Val Glu Gly Met Lys Phe Ile Ile 25 Lys Gly Glu Gly Thr Gly Asp Ala Thr Thr Gly Thr Ile Lys Ala Lys

40

55

50

Tyr Ile Cys Thr Thr Gly Asp Leu Pro Val Pro Trp Ala Thr Ile Leu

60

Ser	Ser	Leu	Ser	Tyr	Gly	Val	Phe	Cys	Phe	Ala	Lys	Tyr	Pro	Arg	His
65				•	70					75					80
Ile	Ala	Asp	Phe	Phe	Lys	Ser	Thr	Gln	Pro	Asp	Gly	Tyr	Ser	Gln	Asp
				85					90					95	
Arg	Ile	Ile	Ser	Phe	Asp	Asn	Asp	Gly	Gln	Tyr	Asp	Val	Lys	Ala	Lys
•			100			•		105					110		
Val	Thr	Tyr	Glu	Asn	Gly	Thr	Leu	Tyr	Asn	Arg	Val	Thr	Val	Lys	Gly
		115					120					125			
Thr	Gly	Phe	Lys	Ser	Asn	Gly	Asn	Ile	Leu	Gly	Met	Arg	Val	Leu	Туг
	130					135					140				
His	Ser	Pro	Pro	His	Ala	Val	Tyr	Ile	Leu	Pro	Asp	Arg	Lys	Asn	Gly
145					150					155					160
Gly	Met	Lys	Ile	Glu	Tyr	Asn	Lys.	Ala	Phe	Asp	Val	Met	Gly	Gly	Gly
		٠	•	165		•			170					175	
His	Gln	Met	Ala	Arg	His	Ala	Gln	Phe	Asn	Lys	Pro	Leu	Gly	Ala	Trp
			180					185					190		
Glu	Glu	Asp	Tyr	Pro	Leu	Tyr	His	His	Leu	Thr	Val	Trp	Thr	Ser	Phe
		195					200					205			
Gly		Asp	Pro	Asp	Asp	Asp	Glu	Thr	Asp	His	Leu	Thr	Ile	Val	Glu
	210					215					220				
	Ile	Lys	Ala	Val	Asp	Leu	Glu	Thr	Tyr	Arg					
225	٠.				230					235					

JC09 Rec'd PCT/PTO 03 JUN 2005

SEQUENCE LISTING

	Bayer HealthCare AG Golz, Stefan Markova, Svetlana Burakova, Ludmila Frank, Ludmila Vysotski, Eugene								
	ISOLATED FLUORESCENT PROTEIN FROM CLYTIA GREGARIA (CGFP) AND USE THEREOF								
<130>	LeA 36 493								
	PCT/EP2003/013281 2003-11-26								
	DE 102 57 354.9 2002-12-09								
<160>	2								
<170>	170> PatentIn version 3.3								
<211> <212>	1 708 DNA Clytia gregaria								
	1 Jeac ttaccgaagg agcaaaactg ttcgagaaag aaattcccta cattacagag	60							
ttggaag	gag acgttgaagg aatgaaattc atcatcaaag gtgaaggtac tggcgacgct	120							
actactg	gca ccatcaaagc gaaatatatt tgcacaactg gtgaccttcc tgtaccatgg	180							
gctacca	tct tgagtagttt gtcgtatggt gttttctgtt tcgctaagta tccacgccac	240							
attgccg	act ttttcaagag cacacaacca gatggttatt cacaagacag aatcattagt	300							
tttgaca	atg atggacaata cgatgtcaaa gccaaggtta cttatgaaaa cggaacactt	360							
tataata	gag tcacagtcaa aggtactggc ttcaaatcaa acggcaacat ccttggtatg	420							
agagttc	tct accattcacc accacacgct gtctacatcc ttcctgaccg taaaaatggt	480							
ggcatga	aaa ttgaatacaa taaggctttc gacgttatgg gcggtggtca ccaaatggcg	540							
cgtcacg	ccc aattcaataa accactagga gcctgggaag aagattatcc gttgtatcat	600							
catctta	ccg tatggacttc tttcggaaaa gatccggatg atgatgaaac tgaccatttg	660							
accatcg	tcg aagtcatcaa agctgttgat ttggaaacat accgttga	708							
<211> <212>	2 235 PRT Clytia gregaria								
<400>	2								
Met Thr Ala Leu Thr Glu Gly Ala Lys Leu Phe Glu Lys Glu Ile Pro 1 15									

Tyr Ile Thr Glu Leu Glu Gly Asp Val Glu Gly Met Lys Phe Ile Ile 20 30

Page 1

Lys Gly Glu Gly Thr Gly Asp Ala Thr Thr Gly Thr Ile Lys Ala Lys 35 40 45 Tyr Ile Cys Thr Thr Gly Asp Leu Pro Val Pro Trp Ala Thr Ile Leu 50 60 Ser Ser Leu Ser Tyr Gly Val Phe Cys Phe Ala Lys Tyr Pro Arg His 65 70 75 80 Ile Ala Asp Phe Phe Lys Ser Thr Gln Pro Asp Gly Tyr Ser Gln Asp 85 90 95 Arg Ile Ile Ser Phe Asp Asn Asp Gly Gln Tyr Asp Val Lys Ala Lys 100 105 110Val Thr Tyr Glu Asn Gly Thr Leu Tyr Asn Arg Val Thr Val Lys Gly 115 120 125 Thr Gly Phe Lys Ser Asn Gly Asn Ile Leu Gly Met Arg Val Leu Tyr 130 140 His Ser Pro Pro His Ala Val Tyr Ile Leu Pro Asp Arg Lys Asn Gly 145 150 155 160 Gly Met Lys Ile Glu Tyr Asn Lys Ala Phe Asp Val Met Gly Gly 165 170 175 His Gln Met Ala Arg His Ala Gln Phe Asn Lys Pro Leu Gly Ala Trp 180 185 190 Glu Glu Asp Tyr Pro Leu Tyr His His Leu Thr Val Trp Thr Ser Phe 195 200 205 Gly Lys Asp Pro Asp Asp Asp Glu Thr Asp His Leu Thr Ile Val Glu 210 215 220 Val Ile Lys Ala Val Asp Leu Glu Thr Tyr Arg 225 230 235